

FIG. 1 is a schematic diagram of a mechanical linkage system. The system includes a first link 1, a second link 2, a third link 3, a fourth link 4, and a fifth link 5. The first link 1 is connected to the second link 2 at a pivot point 3. The second link 2 is connected to the third link 3 at a pivot point 4. The third link 3 is connected to the fourth link 4 at a pivot point 5. The fourth link 4 is connected to the fifth link 5 at a pivot point 6. The first link 1 is also connected to the fifth link 5 at a pivot point 7. The second link 2 is also connected to the fifth link 5 at a pivot point 8. The third link 3 is also connected to the fifth link 5 at a pivot point 9. The fourth link 4 is also connected to the fifth link 5 at a pivot point 10. The fifth link 5 is also connected to the first link 1 at a pivot point 11. The second link 2 is also connected to the first link 1 at a pivot point 12. The third link 3 is also connected to the first link 1 at a pivot point 13. The fourth link 4 is also connected to the first link 1 at a pivot point 14. The fifth link 5 is also connected to the first link 1 at a pivot point 15.

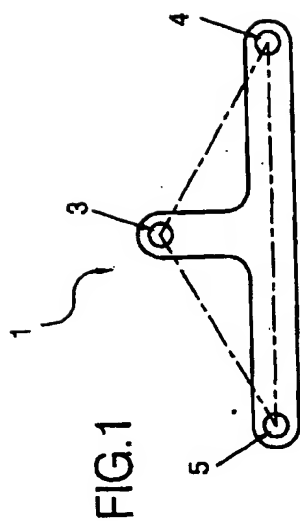


FIG.1

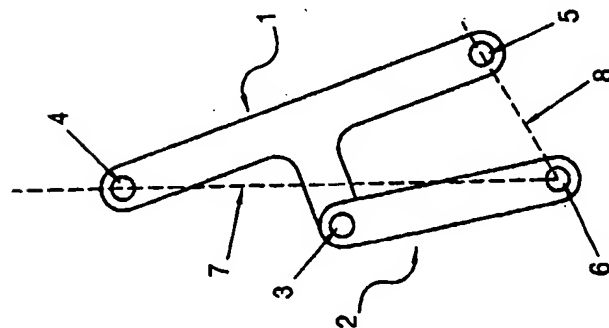


FIG.2

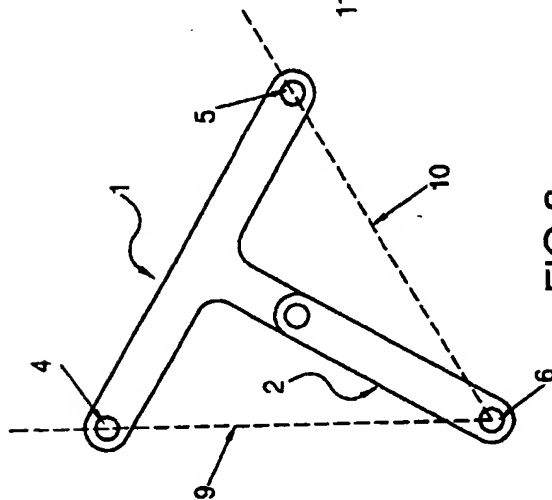


FIG.3

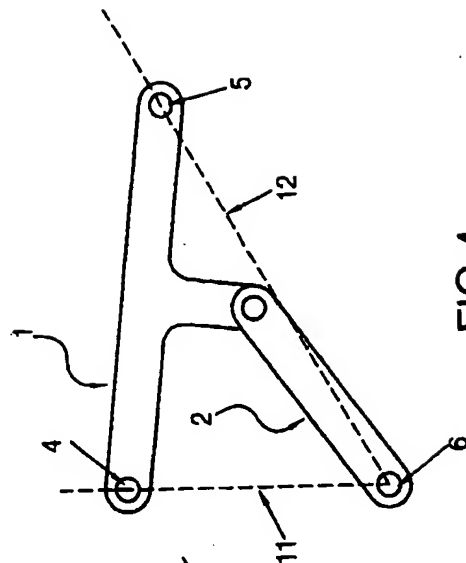


FIG.4

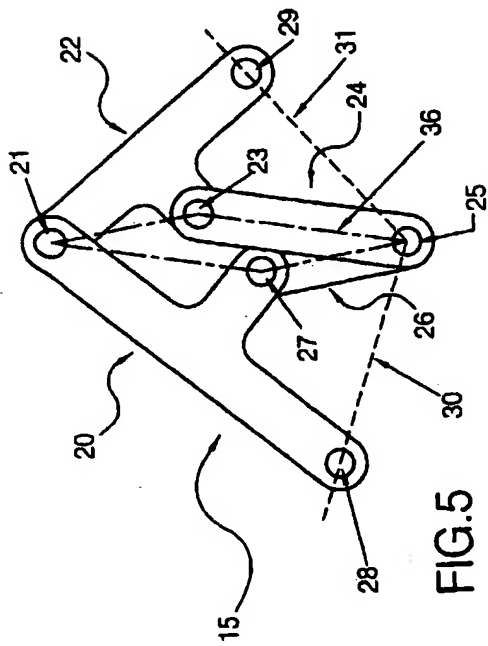


FIG. 5

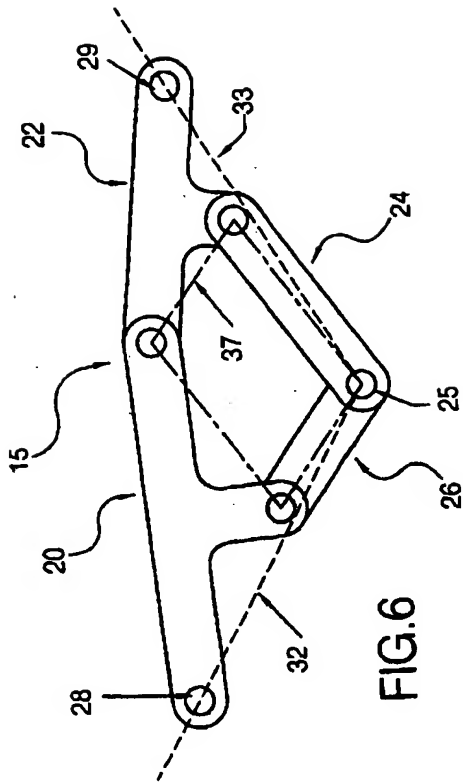


FIG. 6

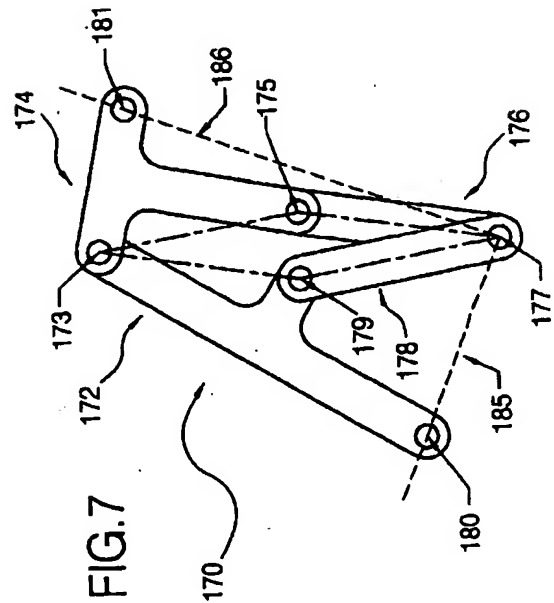


FIG. 7

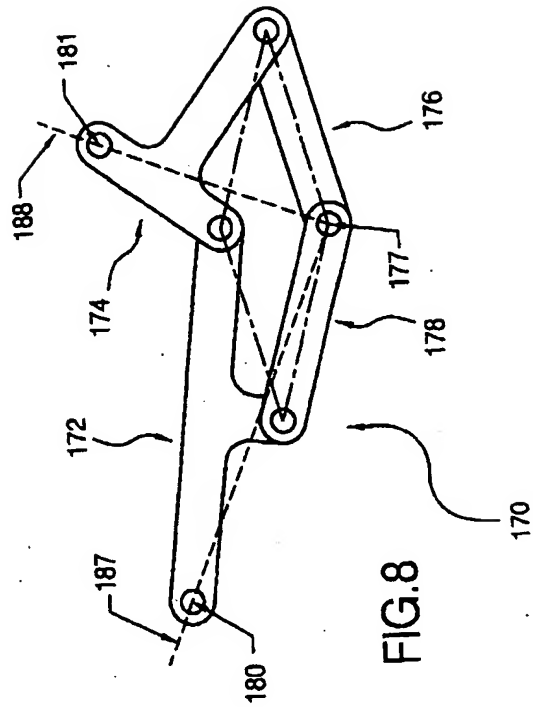
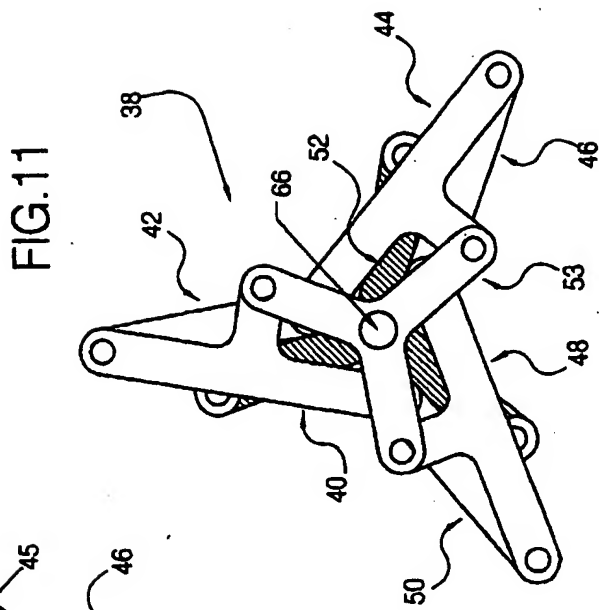
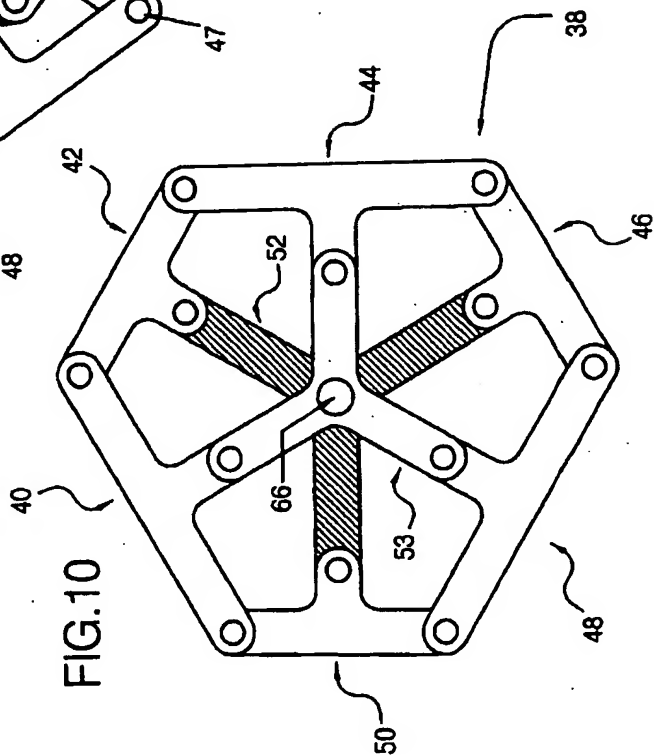
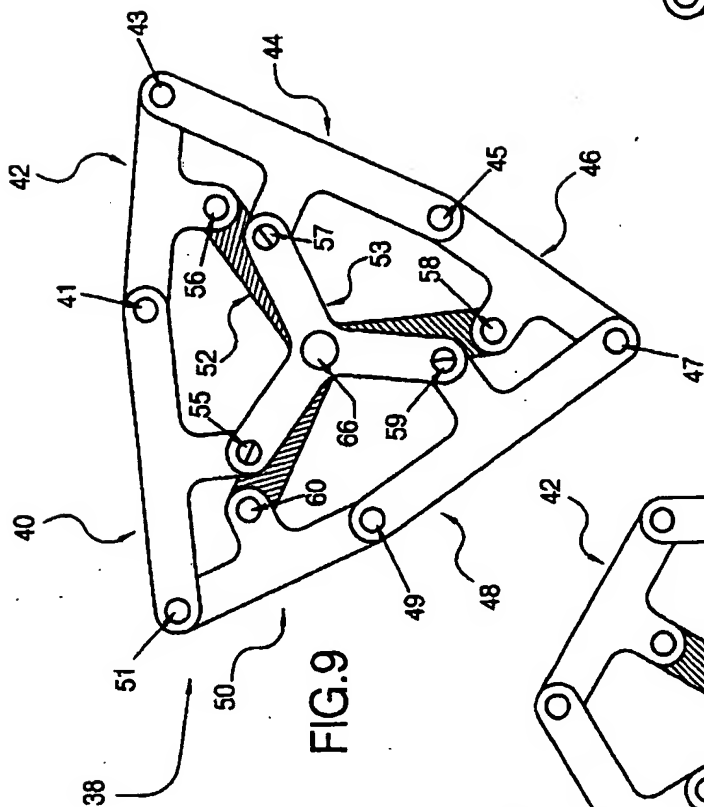


FIG. 8



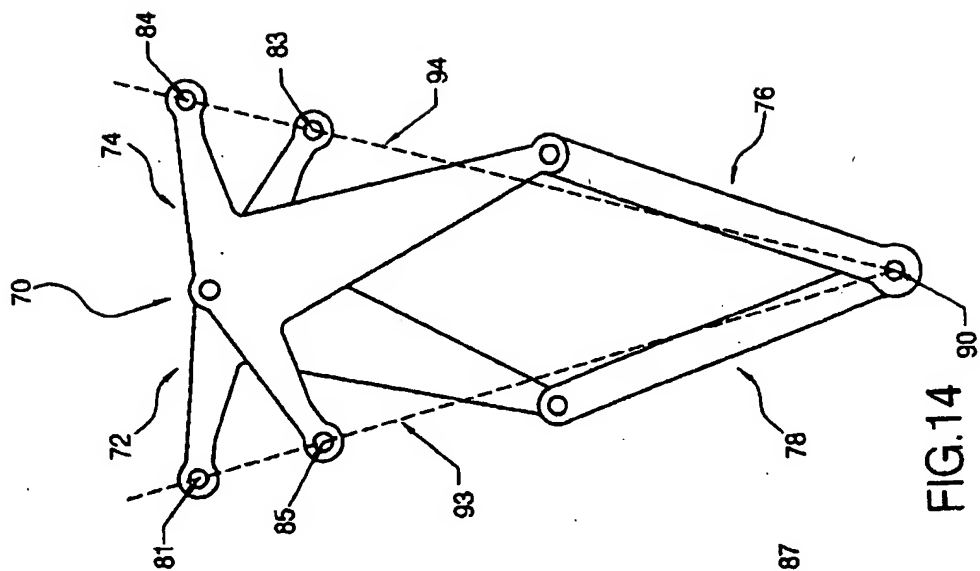
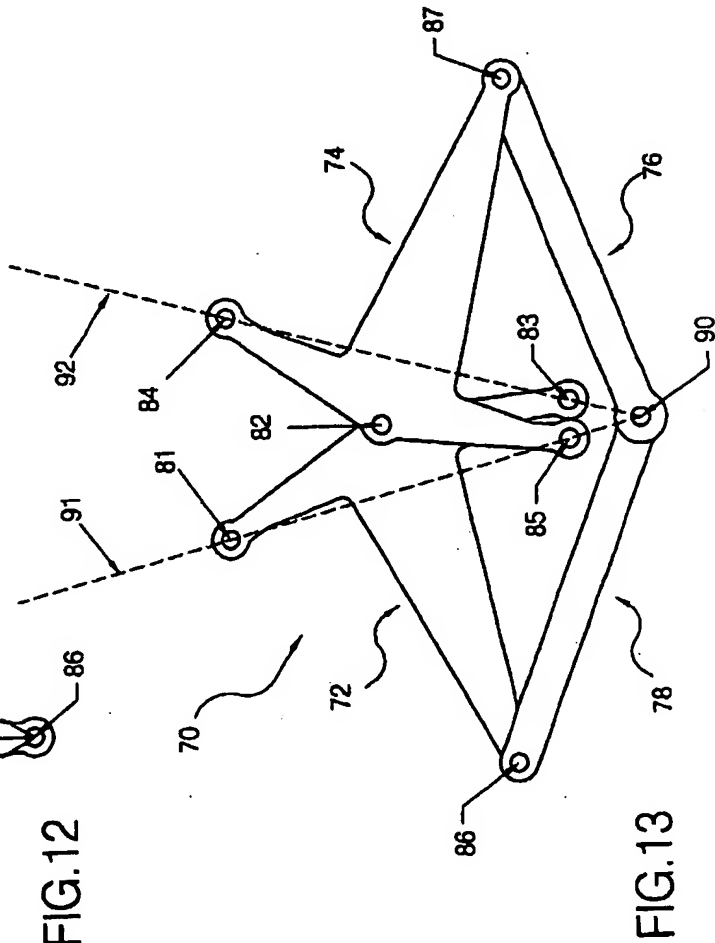
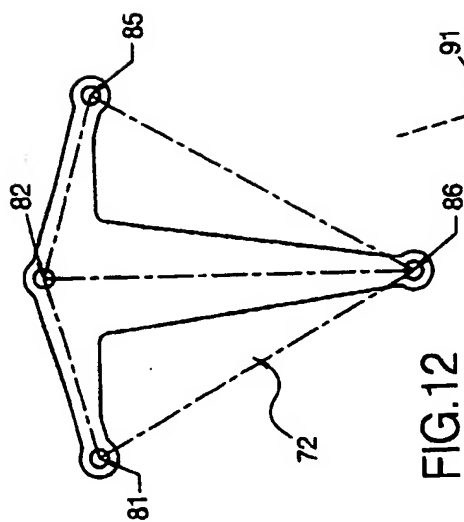


FIG. 16

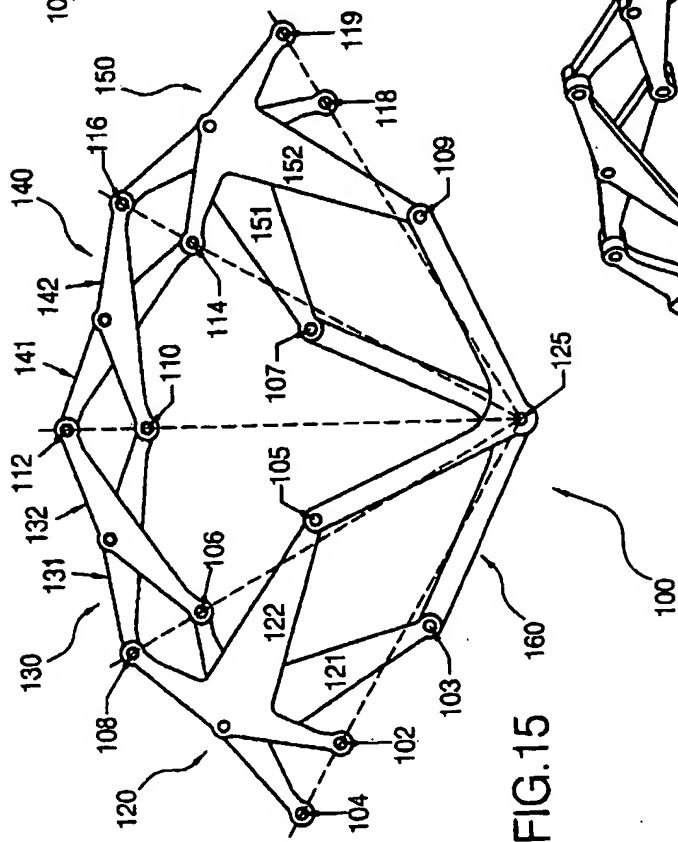
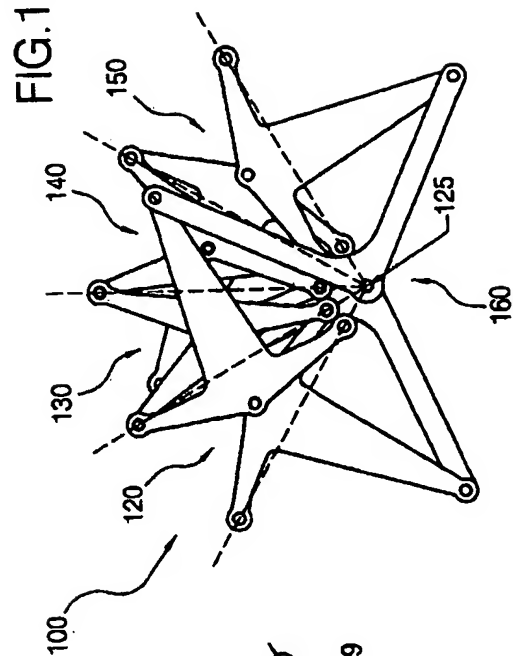


FIG. 15

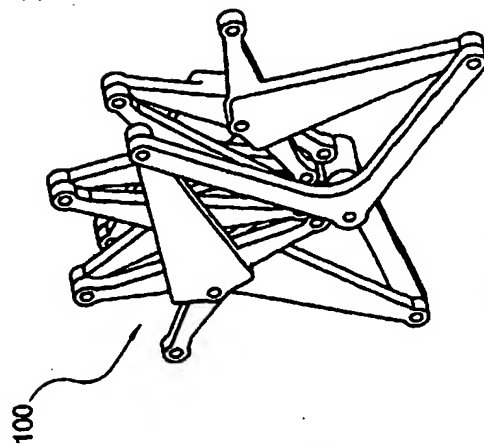


FIG. 17

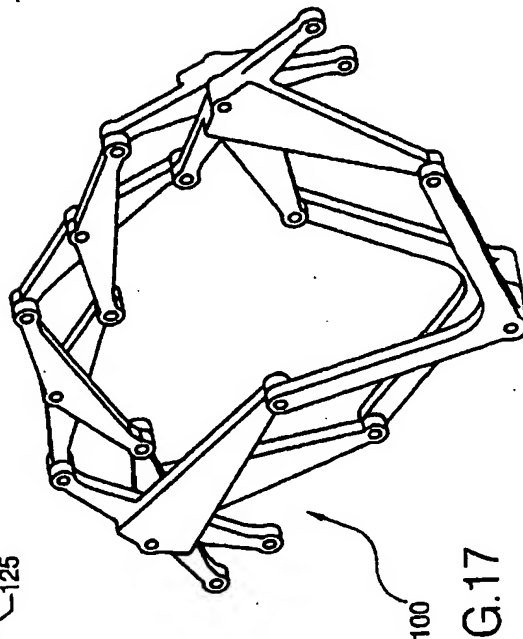


FIG. 18

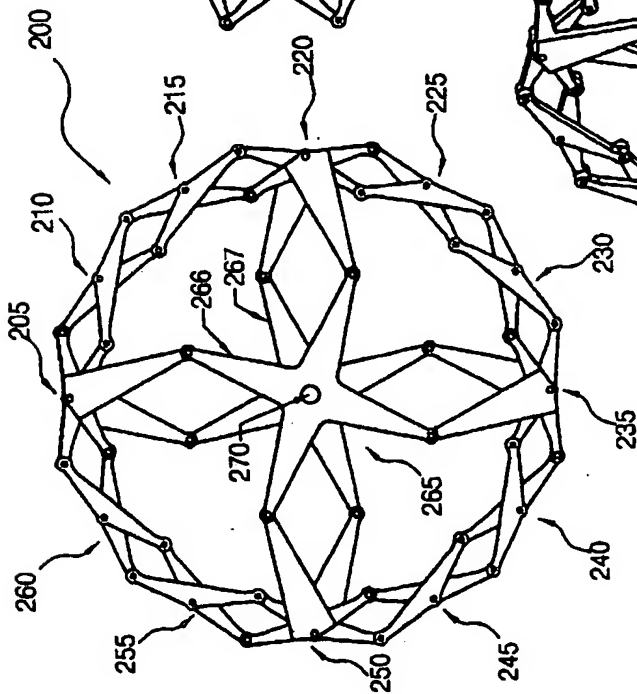


FIG. 19

FIG. 20

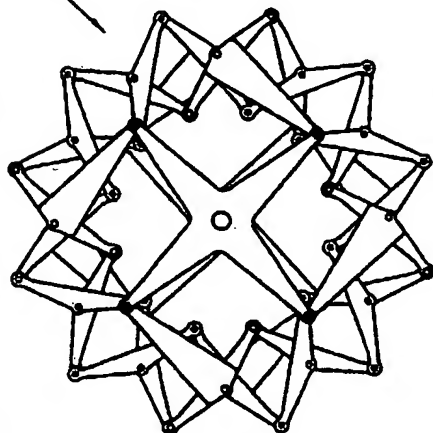


FIG. 21

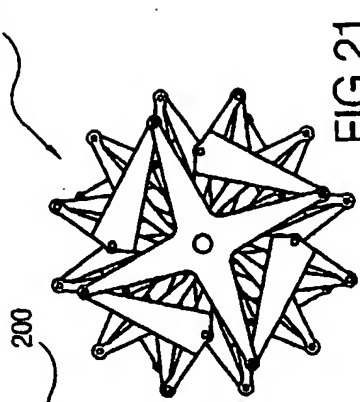


FIG. 22

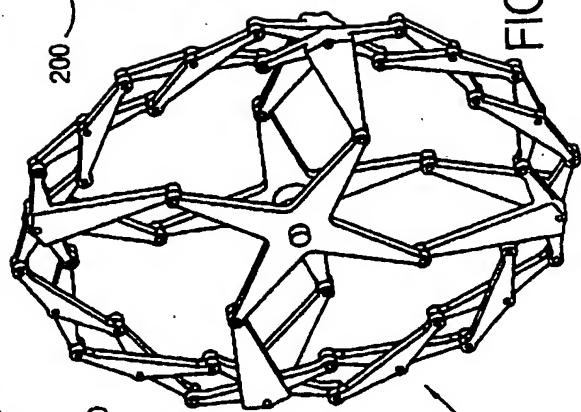


FIG. 23

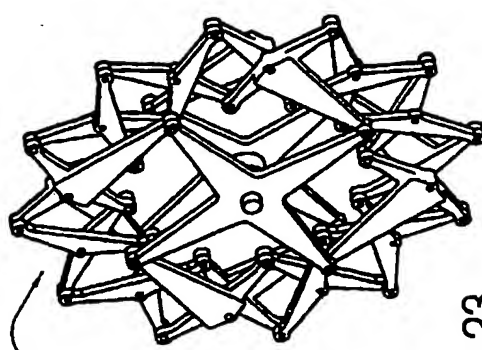
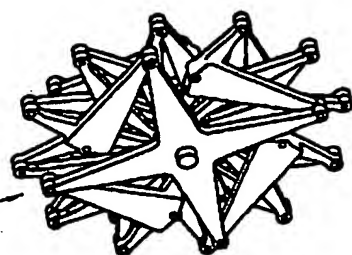


FIG. 24



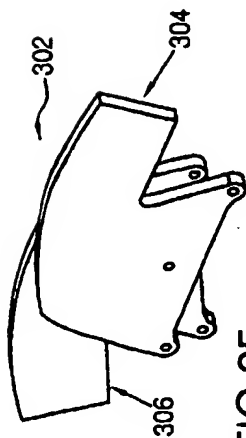


FIG. 25



FIG. 26

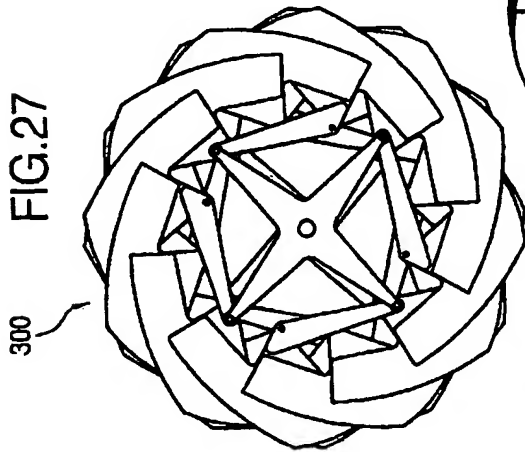


FIG. 27

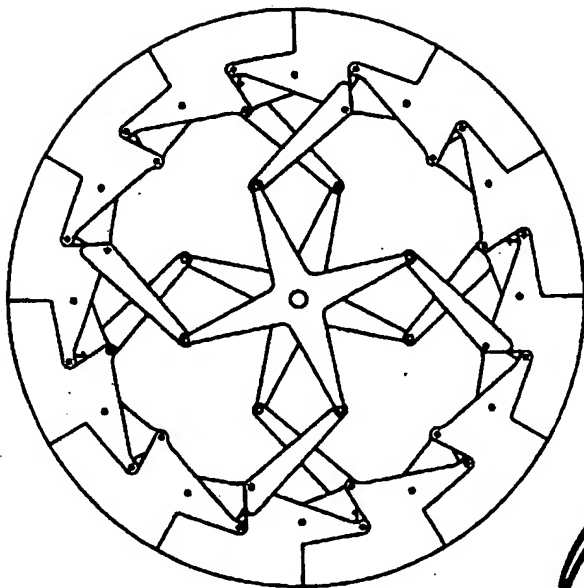


FIG. 28

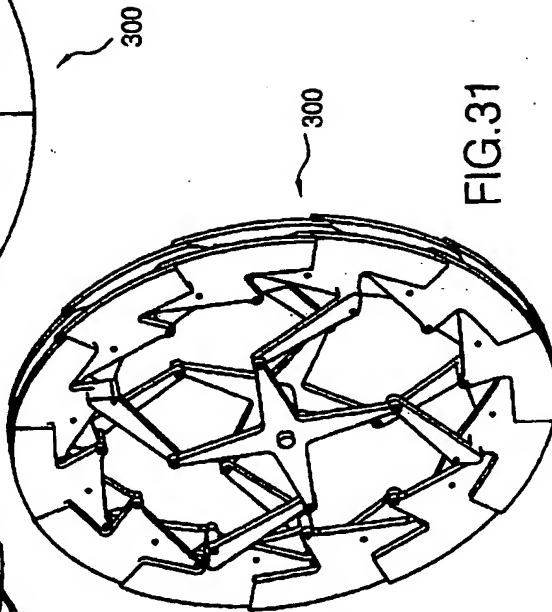


FIG. 31

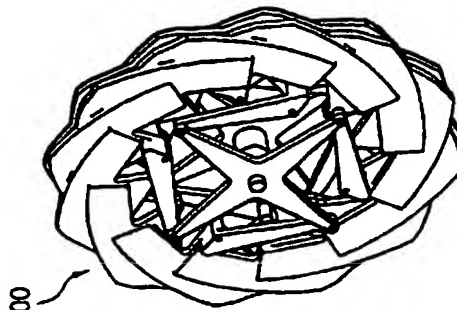


FIG. 30

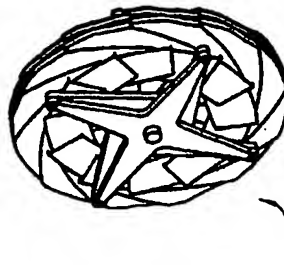
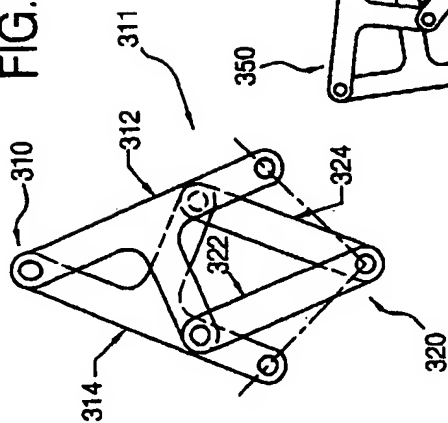


FIG. 29

FIG. 32



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FIG. 34

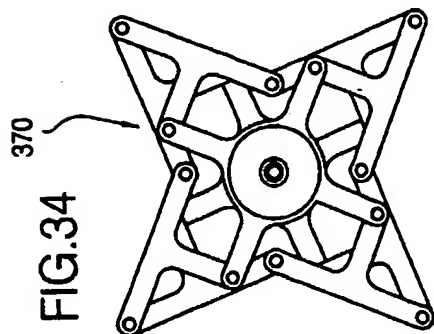


FIG. 33

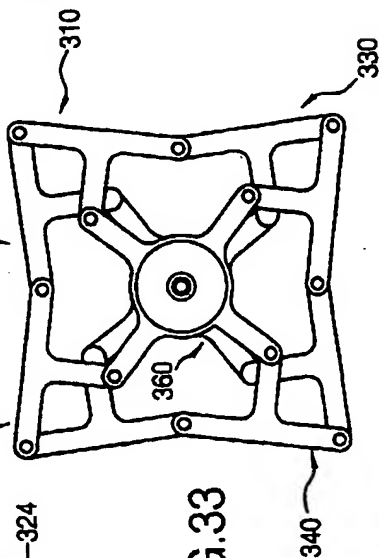


FIG. 35

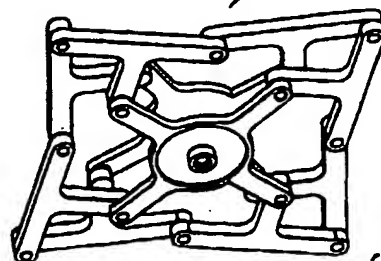
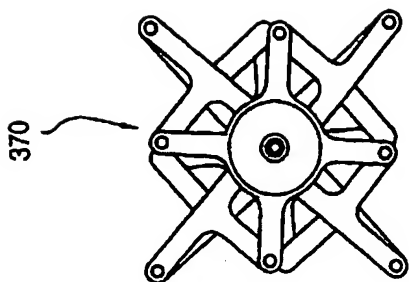


FIG. 36

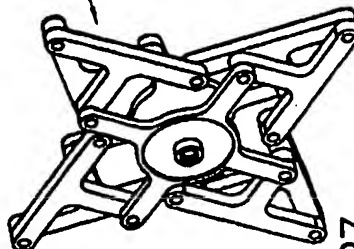


FIG. 37

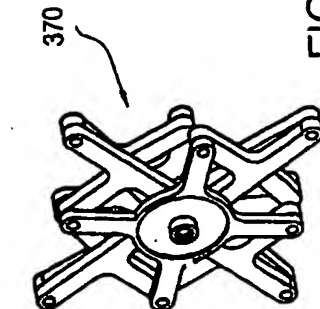


FIG. 38

FIG. 39 is a perspective view of the mechanism of FIG. 38, showing the mechanism in a retracted position. The mechanism includes a base 405, a first arm 410, a second arm 412, a third arm 414, a fourth arm 416, a fifth arm 417, a sixth arm 418, a seventh arm 419, an eighth arm 420, a ninth arm 421, a tenth arm 422, an eleventh arm 423, a twelfth arm 424, a thirteenth arm 425, a fourteenth arm 426, a fifteenth arm 427, a sixteenth arm 428, a seventeenth arm 429, an eighteenth arm 430, a nineteenth arm 431, a twentieth arm 432, a twenty-first arm 433, a twenty-second arm 434, a twenty-third arm 435, a twenty-fourth arm 436, a twenty-fifth arm 437, a twenty-sixth arm 438, a twenty-seventh arm 439, a twenty-eighth arm 440, a twenty-ninth arm 441, a thirtieth arm 442, a thirty-first arm 443, a thirty-second arm 444, a thirty-third arm 445, a thirty-fourth arm 446, a thirty-fifth arm 447, a thirty-sixth arm 448, a thirty-seventh arm 449, a thirty-eighth arm 450, a thirty-ninth arm 451, a fortieth arm 452, a forty-first arm 453, a forty-second arm 454, a forty-third arm 455, a forty-fourth arm 456, a forty-fifth arm 457, a forty-sixth arm 458, a forty-seventh arm 459, a forty-eighth arm 460, a forty-ninth arm 461, a fiftieth arm 462, a fifty-first arm 463, a fifty-second arm 464, a fifty-third arm 465, a fifty-fourth arm 466, a fifty-fifth arm 467, a fifty-sixth arm 468, a fifty-seventh arm 469, a fifty-eighth arm 470, a fifty-ninth arm 471, a sixtieth arm 472, a sixty-first arm 473, a sixty-second arm 474, a sixty-third arm 475, a sixty-fourth arm 476, a sixty-fifth arm 477, a sixty-sixth arm 478, a sixty-seventh arm 479, a sixty-eighth arm 480, a sixty-ninth arm 481, a seventieth arm 482, a seventy-first arm 483, a seventy-second arm 484, a seventy-third arm 485, a seventy-fourth arm 486, a seventy-fifth arm 487, a seventy-sixth arm 488, a seventy-seventh arm 489, a seventy-eighth arm 490, a seventy-ninth arm 491, an eightieth arm 492, an eighty-first arm 493, an eighty-second arm 494, an eighty-third arm 495, an eighty-fourth arm 496, an eighty-fifth arm 497, an eighty-sixth arm 498, an eighty-seventh arm 499, and an eightieth arm 500.

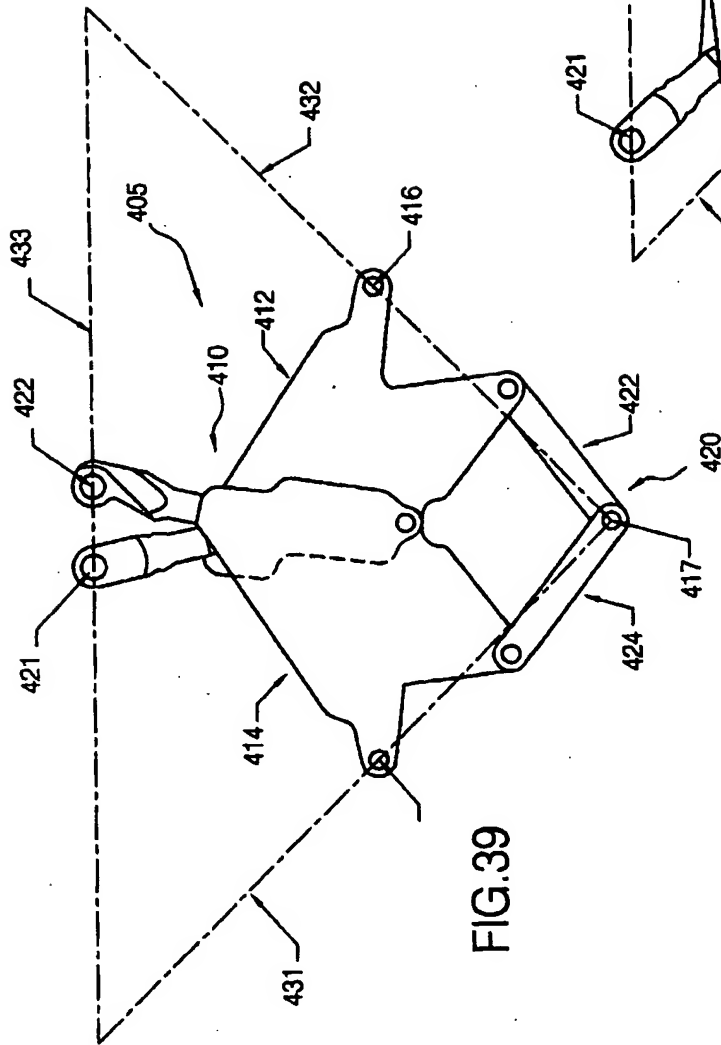


FIG. 39

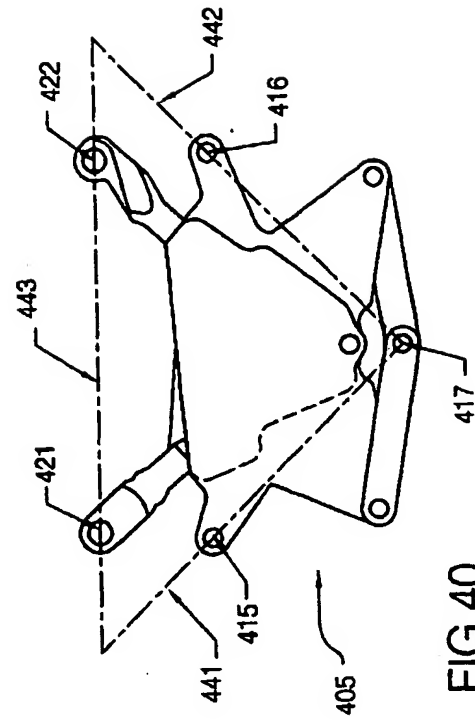


FIG. 40

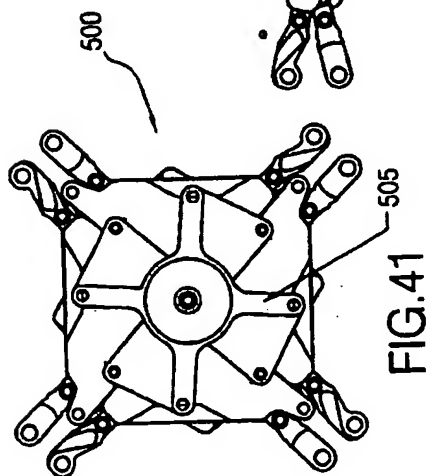


FIG. 41

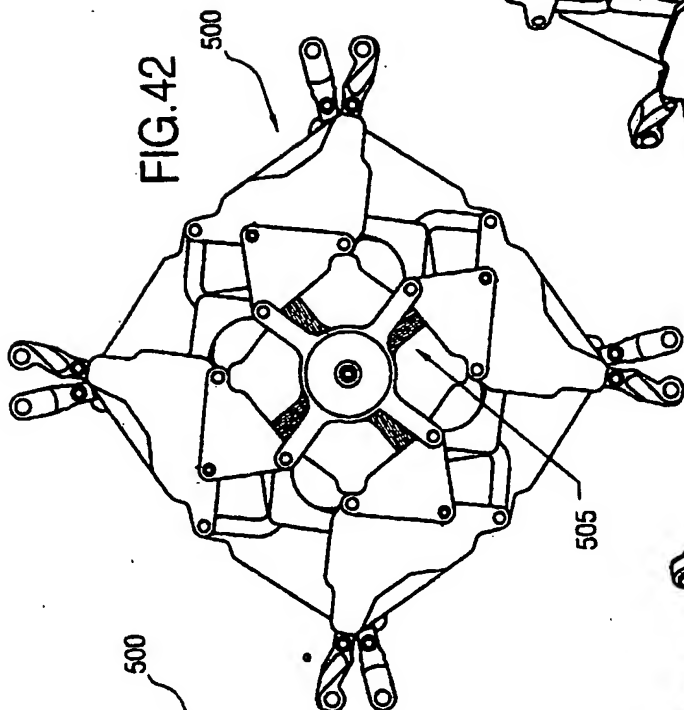


FIG. 42

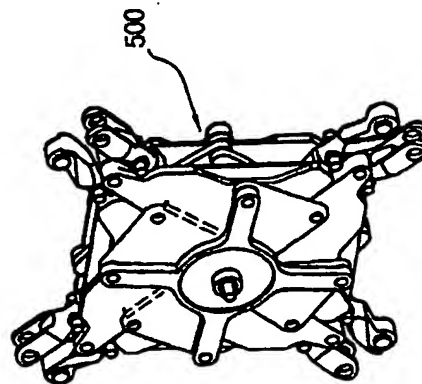


FIG. 43

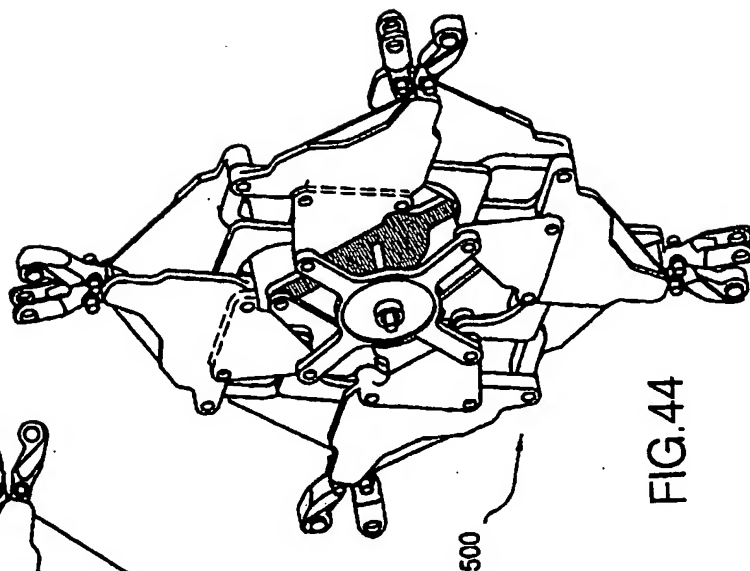


FIG. 44

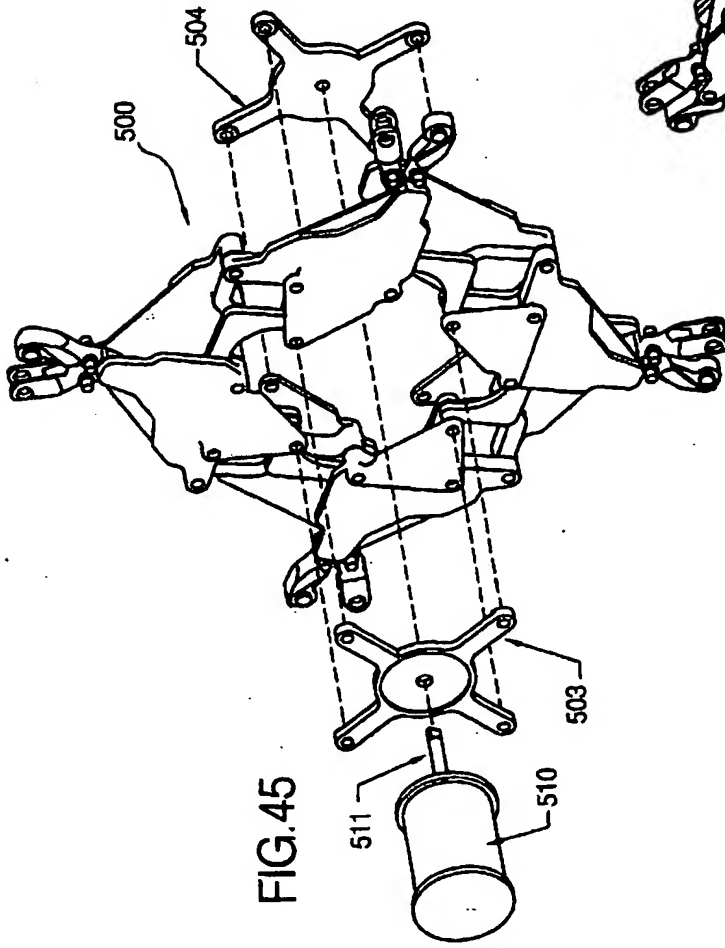


FIG. 45

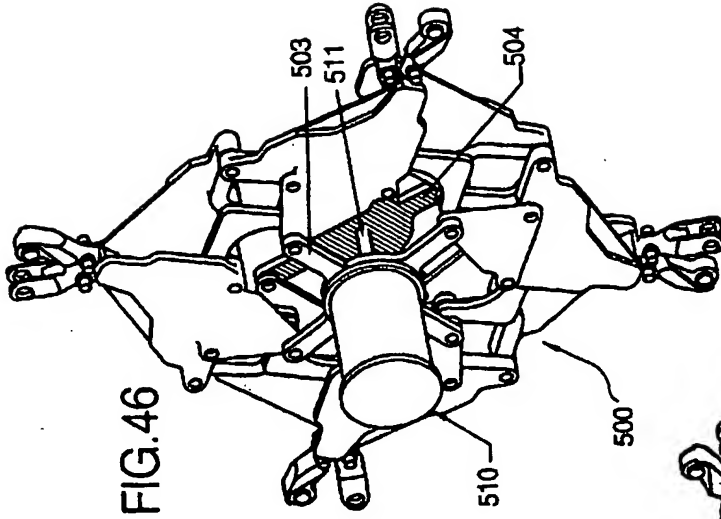


FIG. 46

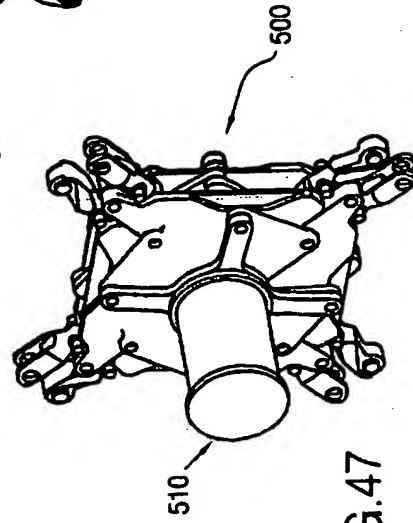


FIG. 47